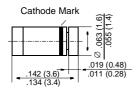
BAS85

Schottky Diodes

MiniMELE



Dimensions in inches and (millimeters)

FEATURES

- For general purpose applications
- This diode features low turn-on voltage. The devices are protected by a PN junction guard ring against excessive voltage, such as electrostatic discharges.
- This diode is also available in a DO-35 case with type designation BAT85.

MECHANICAL DATA

Case: MiniMELF Glass Case (SOD-80) **Weight:** approx. 0.05 g

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified

	Symbol	Value	Unit
Continuous Reverse Voltage	V _R	30	V
Forward Continuous Current at T _{amb} = 25 °C	IF	2001)	mA
Peak Forward Current at T _{amb} = 25 °C	I _{FM}	300 ¹⁾	mA
Surge Forward Current at t _p < 1 s, T _{amb} = 25 °C	I _{FSM}	600 ¹⁾	mA
Power Dissipation at $T_{amb} = 65 \text{ °C}$	P _{tot}	2001)	mW
Junction Temperature	Tj	125	°C
Storage Temperature Range	T _S	-55 to +150	°C
¹⁾ Valid provided that electrodes are kept at ambient ter	nperature.		-



BAS85

ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified

	Symbol	Min.	Тур.	Max.	Unit
Reverse Breakdown Voltage tested with 10 μA Pulses	V _{(BR)R}	30	-	-	V
Forward Voltage Pulse Test $t_p < 300 \ \mu s$, $\delta < 2\%$ at $I_F = 0.1 \ mA$ at $I_F = 1 \ mA$ at $I_F = 10 \ mA$ at $I_F = 30 \ mA$ at $I_F = 100 \ mA$	VF VF VF VF VF		- - 0.5 -	0.24 0.32 0.4 - 0.8	V V V V V
Leakage Current at V _R = 25 V	I _R	-	0.2	2	μΑ
Capacitance at V _R = 1 V, f = 1 MHz	C _{tot}	-	-	10	pF
Thermal Resistance Junction to Ambient Air	R _{thJA}	-	-	430 ¹⁾	K/W
Reverse Recovery Time from I_F = 10 mA to I_R = 1 mA	t _{rr}	-	-	5	ns
¹⁾ Valid provided that electrodes are kept at ambient temperature.					

